

LISTING OF CLAIMS

This listing of claims replaces all prior versions and listings of claims in the patent application.

Claim 1. (previously presented): A method for providing intelligent caching, the method comprising:

receiving a traffic stream;

analyzing the traffic stream for first content;

generating a profile based on the first content;

transmitting the profile to a remote location

generating a master profile based on the received profile;

retrieving second content associated with the master profile at the remote location; and

receiving the second content from the remote location.

Claim 2. (previously presented): The method of claim 1, wherein the step of receiving the second content from the remote location further comprises:

receiving the second content from the remote location over a wide area network (WAN).

Claim 3. (original): The method of claim 2, wherein the WAN is a satellite network that supports a multicast communications session.

Claim 4. (previously presented): The method of claim 1, further comprising:

receiving the traffic stream via a first network; and

transmitting the profile based upon the analyzing step to the remote location via a second network.

Claim 5. (previously presented): The method of claim 1, further comprising:
generating a new master profile; and

periodically transmitting refreshed second content based on the new master profile

Claim 6. (currently amended): The method of claim 1, ~~wherein the analyzing step further comprises~~ further comprising:

prioritizing the first and second content based upon popularity.

Claim 7. (previously presented): The method of claim 1, further comprising:
restricting access to client devices to only content associated with the master profile.

Claim 8. (previously presented): The method of claim 1, wherein the profile is categorized according to predetermined content communities.

Claim 9. (previously presented): A method for providing intelligent caching, the method comprising:

receiving, from a remote cache, a profile that is prepared based upon content of a traffic stream;

generating a master profile based upon the received profile;

retrieving content associated with the master profile; and

transmitting content associated with the master profile to the remote cache.

Claim 10. (previously presented): The method of claim 9, wherein the content associated with the master profile is transmitted to the remote cache over a wide area network (WAN).

Claim 11. (original): The method of claim 10, wherein the WAN is a satellite network that supports a multicast communications session.

Claim 12. (currently amended): The method of claim 9, wherein
the profile is received from the remote cache via a first network; and
the ~~master~~ content associated with the master profile is transmitted to the remote cache via a second network.

Claim 13. (original): The method of claim 9, further comprising:
generating a new master profile; and
periodically refreshing the remote cache with content associated with the new master profile.

Claim 14. (original): The method of claim 9, wherein the generating step comprises: prioritizing the content based upon popularity.

Claim 15. (original): The method of claim 9, wherein the master profile is used to restrict access to content.

Claim 16. (previously presented): A communications system for providing intelligent caching, the system comprising:

a first caching logic configured to analyze a traffic stream for first tier content and to output a first profile of the first tier content; and

a second caching logic configured to generate a second profile based upon the first profile, wherein the second profile is used to retrieve second tier content, and

wherein the second caching logic is further configured to transmit the second tier content to a remote cache.

Claim 17. (previously presented): The system of claim 16, wherein the content associated with the second profile is transmitted over a wide area network (WAN) to the remote cache.

Claim 18. (original): The system of claim 17, wherein the WAN is a satellite network that supports a multicast communications session.

Claim 19. (original): The system of claim 17, wherein the remote cache is pre-loaded with the content associated with the second profile.

Claim 20. (original): The system of claim 17, wherein the remote cache is periodically refreshed with content associated with a new master profile.

Claim 21. (original): The system of claim 16, wherein the content of the first profile and the content associated with the second profile are prioritized based upon popularity.

Claim 22. (original): The system of claim 16, wherein the second profile is used to restrict access to content.

Claim 23. (original): The system of claim 16, wherein the first profile is categorized according to predetermined content communities.

Claim 24. (previously presented): A network device for providing intelligent caching services, comprising:

a processor configured to analyze a traffic stream for first tier content and to output a profile of the first tier content to a second processor, wherein the profile is used to prepare a master profile;

the second processor configured to retrieve second tier content associated with the master profile; and

a cache coupled to the processor and configured to store receive the second tier content.

Claim 25. (previously presented) The device of claim 24, further comprising: a communications interface configured to receive the second tier content associated with the master profile over a wide area network (WAN).

Claim 26. (original) The device of claim 25, wherein the WAN is a satellite network that supports a multicast communications session.

Claim 27. (previously presented) The device of claim 24, wherein the cache is pre-loaded with the second tier content that is associated with the master profile.

Claim 28. (previously presented) The device of claim 27, wherein the cache is periodically refreshed with second tier content associated with a new master profile.

Claim 29. (previously presented) The device of claim 24, wherein the first tier content of the profile and the second tier content associated with the master profile are prioritized based upon popularity.

Claim 30. (original) The device of claim 24, wherein the processor is further configured to restrict access only to content that is associated with the master profile.

Claim 31. (original) The device of claim 24, wherein the profile is categorized according to predetermined content communities.

Claim 32. (previously presented) A network device for providing intelligent caching, the device comprising:

a communications interface configured to receive a profile that is prepared based upon content of a traffic stream; and

a processor coupled to the communications interface and configured to generate a master profile based upon the received profile, wherein second tier content associated with the master profile is retrieved and transmitted over the communications interface to a remote cache.

Claim 33. (original) The device of claim 32, wherein the communications interface is configured to interface with a wide area network (WAN).

Claim 34. (original) The device of claim 33, wherein the WAN is a satellite network that supports a multicast communications session.

Claim 35. (currently amended) The device of claim 32, wherein the content associated with the master profile is pre-loaded in the remote cache.

Claim 36. (original) The device of claim 32, wherein the processor is further configured to generate a new master profile, the remote cache being periodically refreshed with content associated with the new master profile.

Claim 37. (previously presented) The device of claim 32, wherein the content of the profile and the second tier content associated with the master profile are prioritized based upon popularity.

Claim 38. (original) The device of claim 32, wherein the master profile is used to restrict access to content.

Claim 39. (currently amended) A network apparatus for providing intelligent caching, the apparatus comprising:

means for analyzing a traffic stream for first tier content;

means for outputting a profile of the first tier content, wherein the profile is used to prepare a master profile; and

means for caching content that is associated with the master profile.

Claim 40. (original) The apparatus of claim 39, further comprising: means for receiving the content associated with the master profile over a wide area network (WAN).

Claim 41. (original) The apparatus of claim 40, wherein the WAN is a satellite network that supports a multicast communications session.

Claim 42. (original) The apparatus of claim 39, wherein the caching means is pre-loaded with the content that is associated with the master profile.

Claim 43. (original) The apparatus of claim 42, further comprising: means for periodically refreshing the caching means with content of a new master profile.

Claim 44. (original) The apparatus of claim 39, further comprising: means for prioritizing the content based upon popularity.

Claim 45. (original) The apparatus of claim 39, further comprising: means for restricting access only to content that is associated with the master profile.

Claim 46. (original) The apparatus of claim 39, wherein the profile is categorized according to predetermined content communities.

Claim 47. (currently amended) A computer-readable medium carrying one or more sequences of one or more instructions for providing intelligent caching, the one or more sequences of one or more instructions including instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of:

receiving a traffic stream at a first cache engine;

analyzing the traffic stream for first tier content;

generating a profile based on the first tier content;

transmitting the profile to a second cache engine;
generating a master profile based on the ~~received~~ transmitted profile;
retrieving second tier content associated with the master profile by the second cache engine; and
transmitting the second tier content to the first cache engine.

Claim 48. (previously presented) The computer-readable medium of claim 47, further comprising computer-executable instructions for causing the one or more processors to perform the step of:

transmitting the second tier content at a first cache engine over a wide area network (WAN).

Claim 49. (original) The computer-readable medium of claim 48, wherein the WAN is a satellite network that supports a multicast communications session.

Claim 50. (previously presented) The computer-readable medium of claim 47, wherein transmitting the second tier content to the first cache engine is executed to pre-load a cache.

Claim 51. (previously presented) The computer-readable medium of claim 50, further comprising computer-executable instructions for causing the one or more processors to perform the steps of:

generating a new master profile; and

periodically transmitting refreshed second tier content based on the new master profile to the first cache engine.

Claim 52. (previously presented) The computer-readable medium of claim 47, wherein the outputting step comprises:

prioritizing the first tier content based upon popularity.

Claim 53. (original) The computer-readable medium of claim 47, further comprising computer-executable instructions for causing the one or more processors to perform the step of:

restricting access only to content that is associated with the master profile.

Claim 54. (previously presented) The computer-readable medium of claim 47, wherein the profile is categorized according to predetermined content communities.

Claim 55. (previously presented) A computer-readable medium carrying one or more sequences of one or more instructions for providing intelligent caching, the one or more sequences of one or more instructions including instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of:

receiving, at a remote cache, a profile that is prepared based upon content of a traffic stream;

generating a master profile based upon the received profile;

retrieving content associated with the master profile; and

transmitting content associated with the master profile to the remote cache.

Claim 56. (previously presented) The computer-readable medium of claim 55, wherein the content associated with the master profile is transmitted to the remote cache over a wide area network (WAN).

Claim 57. (original) The computer-readable medium of claim 56, wherein the WAN is a satellite network that supports a multicast communications session.

Claim 58. (original) The computer-readable medium of claim 55, wherein the master content associated with the master profile is pre-loaded in the remote cache.

Claim 59. (original) The computer-readable medium of claim 55, further comprising computer-executable instructions for causing the one or more processors to perform the steps of:

generating a new master profile; and

periodically refreshing the remote cache with content associated with the new master profile.

Claim 60. (original) The computer-readable medium of claim 55, wherein the generating step comprises: prioritizing the content based upon popularity.

Claim 61. (original) The computer-readable medium of claim 55, wherein the master profile is used to restrict access to content.